


FORM PTO-1390 (REV. 10-2003)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTORNEY'S DOCKET NUMBER 015280-148100US
TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A FILING UNDER 35 U.S.C. 371			U.S. APPLICATION NO. (If known, see 37 CFR 1.5) Unassigned <b>10/501611</b>
INTERNATIONAL APPLICATION NO. PCT/US03/01622	INTERNATIONAL FILING DATE 17 January 2003 (17. 01.03)	PRIORITY DATE CLAIMED 18 January 2002 (18.01.02)	
TITLE OF INVENTION <b>ALTERATION OF RAB38 FUNCTION TO MODULATE MAMMALIAN PIGMENTATION</b>			
APPLICANT(S) FOR DO/EO/US <b>PAVAN, William J.; LOFTUS, Stacie K.</b>			
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:			
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a filing under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))</p> <p>a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> has been communicated by the International Bureau</p> <p>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</p> <p>6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).</p> <p>a. <input type="checkbox"/> is attached hereto.</p> <p>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))</p> <p>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</p> <p>b. <input type="checkbox"/> have been communicated by the International Bureau.</p> <p>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</p> <p>d. <input checked="" type="checkbox"/> have not been made and will not be made.</p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p> <p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <p>11. <input type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input type="checkbox"/> A preliminary amendment.</p> <p>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published international application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p> <p>20. <input checked="" type="checkbox"/> Other items or information:</p> <p><b>EXPRESS MAIL NO. EV 383385928 US, mailed July 14, 2004;</b></p> <p><b>Application Data Sheet;</b></p> <p><b>International Publication No. WO 03/061580 A2;</b></p> <p><b>Chapter II Demand (PCT Form - PCT/IPEA/401);</b></p> <p><b>PCT/IB/304 &amp; 308</b></p> <p><b>Substitute Pages 5, 6, 26, 29, 35, and 36 Submitted as Article 34 Amendment;</b></p> <p><b>Seven Pages of Formal Drawings.</b></p>			

U.S. APPLICATION NO. (if known, see 37 CFR 1.5) <b>Unassigned 40/501611</b>		INTERNATIONAL APPLICATION NO. <b>PCT/US03/01622</b>		ATTORNEY'S DOCKET NUMBER <b>015280-148100US</b>	
21. <input checked="" type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492(a) (1) - (5)):</b> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO ..... <b>\$1080.00</b>  International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO..... <b>\$920.00</b>  International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO..... <b>\$770.00</b>  International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4)..... <b>\$730.00</b>  International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4)..... <b>\$100.00</b>  <b>ENTER APPROPRIATE BASIC FEE AMOUNT = \$730.00</b>				<b>CALCULATIONS PTO USE ONLY</b>	
Surcharge of <b>\$130.00</b> for furnishing the oath or declaration later than 30 months from the earliest claimed priority date (37 CFR 1.492(e)).				\$	
CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE	\$	
Total claims	48 - 20 =	28	x <b>\$18.00</b>	<b>\$504.00</b>	
Independent claims	9 - 3 =	6	x <b>\$86.00</b>	<b>\$516.00</b>	
MULTIPLE DEPENDENT CLAIM(S) (if applicable)			+ <b>290.00</b>	\$	
<b>TOTAL OF ABOVE CALCULATIONS =</b>				<b>\$1750.00</b>	
<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.				<b>\$0.00</b>	
<b>SUBTOTAL =</b>				<b>\$1750.00</b>	
Processing fee of <b>\$130.00</b> for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(f)).				\$	
<b>TOTAL NATIONAL FEE =</b>				<b>\$1750.00</b>	
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). <b>\$40.00</b> per property +				\$	
<b>TOTAL FEES ENCLOSED =</b>				<b>\$1750.00</b>	
				Amount to be refunded:	
				\$	
				charged:	
				<b>\$1750.00</b>	
a. <input type="checkbox"/> A check in the amount of \$ _____ to cover the above fees is enclosed. b. <input checked="" type="checkbox"/> Please charge my Deposit Account No. <u>20-1430</u> in the amount of <b>\$1750.00</b> to cover the above fees. A duplicate copy of this sheet is enclosed. c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>20-1430</u> . A duplicate copy of this sheet is enclosed. d. <input type="checkbox"/> Fees are to be charged to a credit card. <b>WARNING:</b> Information on this form may become public. <b>Credit card</b> <b>information should not be included on this form.</b> Provide credit card information and authorization on PTO-2038.					
<b>NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b) must be filed and granted to restore the application to pending status.</b>					
SEND ALL CORRESPONDENCE TO:  Kenneth A. Weber, Esq. Townsend and Townsend and Crew LLP Two Embarcadero Center, 8th Floor San Francisco, CA 94111-3834P			<div style="text-align: right;">           14 July 2004          DATE       </div> <div style="text-align: left;">         SIGNATURE           Kenneth A. Weber          NAME           31.677          REGISTRATION NUMBER       </div>		

**TOWNSEND**  
*and*  
**TOWNSEND**  
*and*  
**CREW**

LLP

10/501611  
DT04 Rec'd PCT/PTO 14 JUL 2004

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August 12, 2003

**VIA EXPRESS MAIL, WITH RETURN POSTCARD ENCLOSED**

PCT International Application Processing Div.  
USPTO International Division  
Assistant Commissioner for Patents  
Mail Stop PCT  
P.O. Box 1450  
Alexandria, VA 22313-1450

Re: International Application No. PCT/US03/01622  
Applicants: THE GOVERNMENT OF THE USA AS REPRESENTED BY THE  
SECRETARY OF THE DEPT. OF HEALTH AND HUMAN SERVICES *et al.*  
Inventors: Pavan *et al.*  
Filed: 17 January 2003  
Express Mail Label No.: EV 332 016 711 US  
Date of Mailing: 12 August 2003  
Our File No.: 15280-1481PC

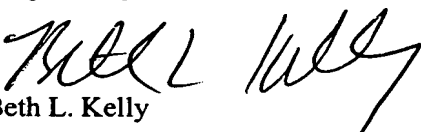
Dear Officer:

Enclosed are the Chapter II Demand and substitute pages 5, 6, 26, 29, 35, and 36 of the Specification, submitted as an Amendment under Article 34. The only changes were corrections to typographical errors and the insertions of SEQ ID: NOs. that do not include matter which go beyond the disclosure in the international application as filed.

It is hereby stated that "the information recorded on the computer readable form is identical to the written sequence listing" and does not include matter which goes beyond the disclosure in the international application as filed.

Thank you for your attention to this matter.

Respectfully submitted,

  
Beth L. Kelly

BLK:kji

Enclosures: Chapter II Demand  
Substitute pages 5, 6, 26, 29, 35, and 36  
Eight (8) pages of Sequence Listing  
Diskette and Statement  
Transmittal Letter  
Postcard

60016843 v1

TRANSMITTAL LETTER OF THE  
UNITED STATES RECEIVING OFFICE

DATE	12 August 2003
INTERNATIONAL APPL. NO.	US03/01622
ATTY DOCKET NO.	20-1481PC

DT04 Rec'd PCT/PTO 14 JUL 2004

I. Certification under 37 CFR 1.10 (if applicable)	
EV 332 016 711 US	12 August 2003
Express Mail mailing number	Date of Deposit

II. <input type="checkbox"/> New International Application	
Title	Earliest priority date (Day/Month/Year)

**SCREENING DISCLOSURE INFORMATION:** In order to assist in screening the accompanying international application for purposes of determining whether a license for foreign transmittal should and could be granted and for other purposes, the following information is supplied. (Note: check as many boxes as apply):

- A. ☐ The invention disclosed was not made in the United States.  
 B. ☐ There is no prior U.S. application relating to this invention.  
 C. ☐ The following prior U.S. application(s) contain subject matter which is related to the invention disclosed in the attached international application. (NOTE: *priority to these applications may or may not be claimed on form PCT/RO/101 (Request) and this listing does not constitute a claims for priority.*)

application no.		filed on	
application no.		filed on	

- D. ☐ The present international application ☐ contains additional subject matter not found in the prior U.S. application(s) identified in paragraph C above. The additional subject matter is found on pages: \_\_\_\_\_ and ☐ DOES NOT ALTER ☐ MIGHT BE CONSIDERED TO ALTER the general nature of the invention in a manner which would require the U.S. application to have been made available for inspection by the appropriate defense agencies under 35 USC 181 and 37 CFR 5.1. See 37 CFR 5.15.

III. <input type="checkbox"/> A Response to an Invitation from the RO/US. The following document(s) is (are) enclosed:					
A. <input type="checkbox"/> A Request for an Extension of Time to File a Response.					
B. <input type="checkbox"/> Power of Attorney (General or Regular)					
C. <input type="checkbox"/> Replacement pages:					
pages		of the request (PCT/RO/101)	pages		of the figures
pages		of the description	pages		of the abstract
pages		of the claims			
D. <input type="checkbox"/> Submission of Priority Documents					
Priority document		Priority document			
E. <input type="checkbox"/> Fees as specified on attached Fee Calculation sheet form PCT/RO/101 annex					

IV. <input type="checkbox"/> A Request for rectification under PCT 91	<input type="checkbox"/> A Petition	<input checked="" type="checkbox"/> Statement, Seq. Listing & Diskette
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V. <input checked="" type="checkbox"/> Other: <input checked="" type="checkbox"/> Chapter II Demand <input checked="" type="checkbox"/> Letter <input checked="" type="checkbox"/> Postcard <input checked="" type="checkbox"/> Article 34 Amendment w/6 sub pgs.
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The Commissioner is hereby authorized to charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to Deposit Account No. 20-1430.

The person signing this form is the	<input type="checkbox"/> Applicant	Beth L. Kelly
	<input checked="" type="checkbox"/> Attorney/Agent (Reg. No.) 51,868	Typed name of signer
	<input type="checkbox"/> Common Representative	Signature